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- 5. The method according to claim 1, wherein the RNA strands are enzymatically synthesized.
- 6. A method for preparing a double stranded RNA molecule which mediates the cleavage of a target mRNA in a mammalian cell, comprising
 - (a) selecting a target mammalian mRNA sequence or target gene sequence,
 - (b) synthesizing a first RNA strand having a length from 19-25 nucleotides, wherein said first RNA strand is complementary to contiguous nucleotides in said target 10 mammalian mRNA or said target gene sequence
 - (c) synthesizing a second RNA strand having a length from 19-25 nucleotides, wherein said second RNA strand is complementary to 14-24 nucleotides from said first RNA strand, and
 - (d) combining the first and second RNA strands under conditions suitable to form a double stranded RNA molecule, wherein said double stranded RNA molecule has a double stranded region of 14-24 nucleotides in length and one or two 3' overhang regions of 1-5 20 nucleotides in length.
- 7. An improved method for preparing a double stranded RNA molecule for mediating the cleavage of an mRNA in a mammalian cell, comprising synthesizing a double stranded RNA molecule,
 - wherein the improvement comprises synthesizing a double stranded RNA molecule having a double stranded region of 16-24 nucleotides in length and one or more 3' overhang regions of 1-3 nucleotides in
- 8. An improved method for preparing a double stranded RNA molecule for mediating the cleavage of an mRNA in a mammalian cell, comprising preparing and isolating a double stranded RNA molecule,
 - wherein the improvement comprises preparing and iso- 35 lating a double stranded RNA molecule having a double stranded region of 16-24 nucleotides in length and one or more 3' overhang regions of 1–3 nucleotides
- ecule which mediates the cleavage of an mRNA in a mammalian cell, comprising
 - (a) synthesizing two RNA strands each having a length from 19-23 nucleotides, and
 - (b) combining the synthesized RNA strands under con- 45 ditions suitable to form a double stranded RNA molecule, wherein said double stranded RNA molecule has a double stranded region of 14-22 nucleotides in length and one or two 3' overhang regions of 1–5 nucleotides in length.

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- 10. The method according to claim 9, wherein said overhang regions are 2-4 nucleotides in length.
- 11. The method according to claim 9, wherein the RNA strands are chemically synthesized.
- 12. The method according to claim 9, wherein the RNA strands are enzymatically synthesized.
- 13. A method for preparing a double stranded RNA molecule which mediates the cleavage of a target mRNA in a mammalian cell, comprising
 - (a) selecting a target mammalian mRNA sequence or target gene sequence,
 - (b) synthesizing a first RNA strand having a length from 19-23 nucleotides, wherein said first RNA strand is complementary to contiguous nucleotides in said target mammalian mRNA or said target gene sequence
 - (c) synthesizing a second RNA strand having a length from 19-23 nucleotides, wherein said second RNA strand is complementary to 16-22 nucleotides from said first RNA strand, and
 - (d) combining the first and second RNA strands under conditions suitable to form a double stranded RNA molecule, wherein said double stranded RNA molecule has a double stranded region of 16-22 nucleotides in length and one or two 3' overhang regions of 1-5 nucleotides in length.
- 14. An improved method for preparing a double stranded RNA molecule for mediating the cleavage of an mRNA in a mammalian cell, comprising synthesizing a double stranded RNA molecule,
 - wherein the improvement comprises synthesizing a double stranded RNA molecule having a double stranded region of 16-22 nucleotides in length and one or more 3' overhang regions of 1-3 nucleotides in length.
- 15. An improved method for preparing a double stranded 9. A method for preparing a double stranded RNA mol- 40 RNA molecule for mediating the cleavage of an mRNA in a mammalian cell, comprising preparing and isolating a double stranded RNA molecule,
 - wherein the improvement comprises preparing and isolating a double stranded RNA molecule having a double stranded region of 16-22 nucleotides in length and one or more 3' overhang regions of 1-3 nucleotides in length.